

TRIM41 (O-20): sc-102143

BACKGROUND

Tripartite motif-containing protein 41 (TRIM41), also known as RINCK, is a 630 amino acid member of the TRIM family, also known as the RING-B-box coiled-coil (RBCC) family. Members of the RBCC family have an N-terminal RING-finger, followed by one or two zinc-binding domains (B-box domains), a leucine coiled-coil region and a variable C-terminal domain. Localized to both the nucleus and cytoplasm, TRIM41 associates with protein kinase C (PKC) through the C1A domain of PKC. Studies have shown that overexpression of TRIM41 reduces the levels of PKC in cells, whereas knockdown of TRIM41 leads to increased levels of PKC. Thus, it is hypothesized that TRIM41 plays a role in regulating PKC levels in cells, specifically through the ubiquitination of PKC. Four isoforms of TRIM41 exist as a result of alternative splicing events.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TRIM41 (human) mapping to 5q35.3.

SOURCE

TRIM41 (O-20) is a purified rabbit polyclonal antibody raised against TRIM41 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 50 µg IgG in 500 µl PBS with < 0.1% sodium azide, 0.1% gelatin and < 0.02% sucrose.

APPLICATIONS

TRIM41 (O-20) is recommended for detection of TRIM41 of human and dog origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for TRIM41 siRNA (h): sc-91877, TRIM41 shRNA Plasmid (h): sc-91877-SH and TRIM41 shRNA (h) Lentiviral Particles: sc-91877-V.

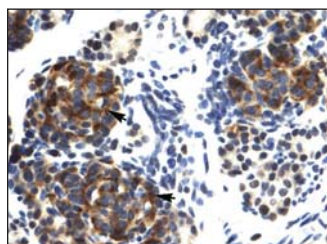
Molecular Weight of TRIM41: 72 kDa.

Positive Controls: human pancreas tissue or fetal liver tissue extract.

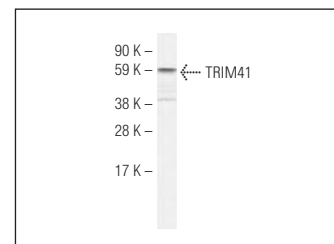
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



TRIM41 (O-20): sc-102143. Immunoperoxidase staining of formalin fixed, paraffin-embedded human pancreas tissue showing nuclear and cytoplasmic staining.



TRIM41 (O-20): sc-102143. Western blot analysis of TRIM41 expression in fetal liver tissue extract.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.